## WHAT IS CLAIMED IS:

- 1. A joint prosthesis for implantation in a patient, comprising:
- a body having a central canal extending therethrough; and
- a shaft coupled to the body and extending through the central canal,
- 4 wherein the shaft is interchangeable after implantation of the prosthesis by removing
- the shaft and replacing the shaft with a replacement shaft without dislodging the body
- 6 from the patient.
- The joint prosthesis of claim 1, wherein the shaft is coupled to the
- body via insertion of the shaft through an end of the central canal nearest an articular
- 3 surface of the prosthesis and the shaft is removed from the body by reversing the
- 4 direction of insertion.
- The joint prosthesis of claim 2, wherein the shaft is coupled to the
- body via a taper lock between the shaft and the body.
- The joint prosthesis of claim 3, wherein the taper lock is a Morse taper
- 2 lock.
- The joint prosthesis of claim 1, wherein the joint prosthesis is
- 2 configured to replace a hip joint.
- 1 6. The joint prosthesis of claim 1, wherein the joint prosthesis is
- 2 configured to replace a shoulder joint.
- 7. The joint prosthesis of claim 1, wherein the replacement shaft is an
- 2 intramedullary nail.
- The joint prosthesis of claim 1, wherein the replacement shaft is longer
- than the shaft.
- 1 9. The joint prosthesis of claim 1, further comprising an insert coupled to
- the body and extending at least partially into the central canal.

- 1 10. The joint prosthesis of claim 9, wherein the insert is screwed into the central canal.
- 1 11. A modular joint prosthesis having an articular surface for implantation 2 in a patient, comprising:
- a stem coupled to the articular surface, the stem comprising a proximal
- 4 portion nearest the articular surface and a distal portion configured to extend into a
- 5 long bone of the patient;
- 6 wherein the distal portion may be removed from the stem after
- 7 implantation of the prosthesis without also removing the proximal portion.
- 1 12. The modular joint prosthesis of claim 11, further comprising a central canal in the proximal portion in which the distal portion is received.
- 1 13. The modular joint prosthesis of claim 12, wherein the distal portion is
- 2 coupled to the proximal portion via insertion of the distal portion through an end of
- the central canal nearest the articular surface and the distal portion is removed from
- 4 the proximal portion by reversing the direction of insertion.
- 1 14. The modular joint prosthesis of claim 13, wherein the distal portion is
- 2 coupled to the proximal portion via a taper lock between the distal portion and the
- 3 proximal portion.
- 1 15. The modular joint prosthesis of claim 12, further comprising an insert
- 2 coupled to the proximal portion and extending at least partially into the central canal.
- 1 16. The modular joint prosthesis of claim 15, wherein the insert is screwed
- 2 into the central canal.
- 1 The modular joint prosthesis of claim 11, wherein the joint prosthesis
- 2 is configured to replace a hip joint.
- 1 18. The modular joint prosthesis of claim 11, wherein the joint prosthesis
- 2 is configured to replace a shoulder joint.

1	19.	A method of replacing a shaft of a joint prosthesis having a body and a
2	shaft after the joint prosthesis has been implanted in a patient, comprising:	
3		creating an access aperture in the patient for access to the joint
4	prosthesis;	
5	,	removing the shaft from the patient without removing the body;
6		inserting a replacement shaft into the patient;
7		coupling the replacement shaft to the body;
8		locking the replacement shaft into place in the patient; and
9		closing the access aperture.
1	20.	The method of claim 19, wherein the body has an aperture configured
2	to receive the	shaft or the replacement shaft and wherein the coupling step includes
3 .	inserting the replacement shaft into the aperture.	
1	21.	The method of claim 20, further comprising coupling an insert to the
2 ·	body, the inse	ert extending at least partially into the aperture.
1	22.	The method of claim 19, wherein the replacement shaft is an
2	intramedullar	y nail.
1	23.	The method of claim 19, wherein the replacement shaft is longer than
2	the shaft.	
1	24.	The method of claim 19, wherein the shaft is removed with the aid of a
2	shaft removal device.	
1	25.	A modular joint prosthesis system, comprising:
2		a body;
3		an articular surface;
4		a first shaft configured to be coupled to the body; and
5		a second shaft configured to be coupled to the body, wherein the
6	second shaft i	s used to replace the first shaft after implantation of the prosthesis into a
7	patient without first removing the body from the patient.	

- The modular joint prosthesis system of claim 25, wherein the first shaft
- 2 is coupled to the body via insertion of the first shaft through an end of a central canal
- in the body nearest the articular surface and the shaft is removed from the body by
- 4 reversing the direction of insertion.
- 1 27. The modular joint prosthesis system of claim 26, wherein the second
- shaft is coupled to the body via insertion of the second shaft through the end of the
- 3 central canal nearest the articular surface.
- 1 28. The modular joint prosthesis system of claim 25, wherein the shaft is
- 2 coupled to the body via a taper lock between the shaft and the body.
- The modular joint prosthesis system of claim 28, wherein the taper
- lock is a Morse taper lock.
- 1 30. The modular joint prosthesis system of claim 26, further comprising an
- 2 insert coupled to the body.
- The modular joint prosthesis system of claim 30, wherein the insert is
- 2 screwed into the central canal.
- The modular joint prosthesis system of claim 25, wherein the joint
- 2 prosthesis is configured to replace a hip joint.
- The modular joint prosthesis system of claim 25, wherein the joint
- 2 prosthesis is configured to replace a shoulder joint.
- 1 34. The modular joint prosthesis system of claim 25, wherein the second
- 2 shaft is an intramedullary nail.
- The modular joint prosthesis system of claim 25, wherein the second
- 2 shaft is longer than the first shaft.
- The modular joint prosthesis system of claim 25, further comprising a
- shaft removal device configured to be coupled to the first shaft.

- 1 37. The modular joint prosthesis system of claim 36, wherein the first shaft
- 2 includes a threaded recess and the shaft removal device includes a threaded portion
- 3 configured to be screwed into the threaded recess to couple the shaft removal device
- 4 to the first shaft.
- 1 38. The modular joint prosthesis system of claim 25, further comprising a
- 2 head coupled to the body, the head having the articular surface.